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SOLAR ENERGY

Analysis of Federal Incentives Used to Stimulate Energy Production.
1978. 416 p. il. E 1.28:PNL-2410 S/N 061-000-00101-8 $ 6.00

Analysis of the Current Economic Feasibility of Solar Water and Space Heating. *Compares the costs of operating electric, gas and fuel oil heating systems and the cost of installing and operating a solar heating system. The comparison is conducted in four representative United States cities and includes an assessment of the impact of proposed Federal tax credits on solar installations.* 1978. 32 p.
E 1.26:0023 S/N 061-000-00027-5 1.60

Application of Solar Technology to Today's Energy Needs:

Volume 1. 1978. 525 p. il.
Y 3.T 22/2:2 So 4/v.1 S/N 052-003-00539-5 8.50

Volume 2. 1978. 756 p. il.
Y 3.T 22/2:2 So 4/v.2 S/N 052-003-00608-1 8.75

Assessment of Solar Energy as a National Energy Resource. *Did you know that solar energy is received in sufficient quantity to make a major contribution to the future of United States heat and power requirements, and there are no technical barriers to wide application of solar energy to meet United States needs? These and an astonishing number of facts concerning the potential of solar energy are contained in this report.*
1972. 85 p. il. NS 1.2:So 4/2 S/N 038-000-00164-7 1.50

Biomass: Solar Energy From Farms and Forests. 1979. 13 p. il.
E 1.28:SERI/SP-69-242 S/N 061-000-00333-9 1.00

Building Science Series:

Economic Model for Passive Solar Designs in Commercial Environments.
1980. 135 p. il. C 13.29/2:125 S/N 003-003-02203-9 4.75

Experimental Verification of a Standard Test Procedure for Solar Collectors. 1978. 127 p. il.
C 13.29/2:117 S/N 003-003-02008-7 3.00

Building Science Series - con.

Geographical Variation in the Heating and Cooling Requirements of a Typical Single-Family House and Correlation of These Requirements to Degree Days. 1978. 54 p. il.
C 13.29/2:116 S/N 003-003-01992-5 $ 2.50

Hourly Solar Radiation Data for Vertical and Horizontal Surfaces on Average Days in the United States and Canada. 1977. 405 p. il.
C 13.29/2:96 S/N 003-003-01698-5 4.65

Building the Solar Home: Some Early Lessons Learned. *This booklet summarizes and reports the problems that have arisen in solar projects sponsored by the Department of Housing and Urban Development. Areas covered include difficulties in the design, calculations, and various components of the many active and passive systems built and evaluated for the program.* 1978. 36 p. il.
HH 1.74:2 S/N 023-000-00455-1 1.70

Citizens' Solar Program: State Reports on Barriers and Strategies to Renewable Energy Development. *This publication discusses the potential of renewable energy on a State-by-State basis.* 1978. 632 p. il.
E 1.28:HCP/U 6308-01 S/N 061-000-00201-4 8.00

Community Impediments to Implementation of Solar Energy. *The objective of this project, Technology Assessments of Solar Energy (TASE), is to provide policy makers an analysis of the potential health, environmental, and social and economic consequences of large-scale commercialization of solar technologies. Publication's stated objective is to examine the ability of communities and their institutions to progressively absorb changes incurred by adapting to an energy system heavily oriented toward community scale solar technologies.* 1979. 98 p. il.
E 1.16:0059 S/N 061-000-00360-6 4.00

Comparison of Six Generic Solar Domestic Hot Water Systems. 1980. 62 p. il. E 1.28:SERI/RR-351-413 S/N 061-000-00355-0 3.75

Conservation and Solar Energy Programs of the Department of Energy, A Critique. 1980. 80 p.
Y 3.T 22/2:2 C 76/3 S/N 052-003-00757-6 3.75

Definition Report, National Solar Energy Research, Development and Demonstration Program. 1975. 87 p. il.
ER 1.11:ERDA-49 S/N 052-010-00473-5 2.00

Demand Analysis Solar Heating and Cooling of Buildings, Phase 1 Report, Solar Water Heating in South Florida, 1923-1974. *This report focuses on two separate subjects relating to the use and acceptance of solar heating and cooling by the general public. Part one is a summary of the solar water heating industry in Miami, Florida. It describes products and technology of the solar water heating industry, economics of marketing solar water heaters, users' costs, and opinions of Miami residents on solar water heating. Part two reviews the attitudes of lending institutions and financiers throughout the country toward the solar heating and cooling of buildings.* 1974. 169 p. il.
NS 1.2:So 4/12 S/N 038-000-00207-4 2.45

Development of Proposed Standards for Testing Solar Collectors and Thermal Storage Devices. 1976. 258 p. il.
C 13.46:899 S/N 003-003-01579-2 $ 4.00

DOE (Department of Energy) Facilities Solar Design Handbook. *Includes discussions of solar energy fundamentals, solar heating and cooling technology, systems and components, and solar energy economics. Intended for planning, development, and design personnel to use in consideration of solar heating and cooling systems for Department of Energy facilities.* 1978. 169 p. il. Issued in looseleaf form, punched for 3-ring binder.
E 1.32:0006/1 S/N 061-000-00097-6 3.75

Domestic Policy Review of Solar Energy. 1979. 153 p. il.
E 1.28:TID-22834 S/N 061-000-00252-9 3.25

Economics of Solar Home Heating, A Study. *A 1976 study prepared for the Joint Economic Committee, analyzing the extent to which solar energy can be economically substituted for more conventional residential heating and hot water systems. The analysis is done on a State-by-State basis, and covers the period 1976-1990.* 1977. 86 p. il.
Y 4.Ec 7:So 4 S/N 052-070-03968-0 1.35

Energy Facts 2. *Contains a comprehensive selection of United States and foreign energy statistics on common and some unconventional energy sources. These include coal, synthetic fuels, gas, nuclear energy, oil, solar energy, and uranium.* 1975. 536 p. il.
Y 4.Sci 2:94-1/H S/N 052-070-03030-5 4.55

Energy in Mexico: A Profile of Solar Energy Activity in Its National Context. 1980. 35 p. Issued with perforations.
E 1.28:SERI/SP-763-595 S/N 061-000-00398-3 2.75

Energy Research and Development Administration, Statutes and Legislative Histories. *Only those volumes which pertain to solar energy are shown.*

Volume 1, Solar Heating and Cooling Demonstration Act of 1974, Public Law 93-409. 1978. 428 p.
Y 4.Sci 2:95/Y S/N 052-070-04465-9 4.25

Volume 2, Geothermal Energy Research, Development, and Demonstration Act of 1974, Public Law 93-410. 1978. 257 p.
Y 4.Sci 2:95/Z S/N 052-070-04466-7 3.50

Volume 3, Solar Energy Research Development and Demonstration Act of 1974, Public Law 93-473. 1978. 245 p.
Y 4.Sci 2:95/AA S/N 052-070-04467-5 3.25

Energy Research and Development and Small Business, Hearings Before the Select Committee on Small Business, Senate, 94th Congress, 1st Session, Solar Energy, How Much? How Much From Small Business? How Soon? Why Not More? Why Not Sooner?:

Part 1, May 13-14, 1975. 1975. 809 p. il.
Y 4.Sm 1/2:En 2/pt.1 S/N 052-070-03108-5 $ 6.60

Part 1A, Appendixes, May 13-14, 1975. 1975. p. 811-1564, il.
Y 4.Sm 1/2:En 2/pt.1 A S/N 052-070-03107-7 6.20

Part 1B, Appendixes, May 13-14, 1975. 1975. p. 1565-2623, il.
Y 4.Sm 1/2:En 2/pt.1 B S/N 052-070-03109-3 9.60

Part 1C, Appendixes, May 13-14, 1975. 1975. p. 2625-3766, il.
Y 4.Sm 1/2:En 2/pt.1 C S/N 052-070-03110-7 10.25

Part 1D, Appendixes, May 13-14, 1975. 1975. p. 3767-4329, il.
Y 4.Sm 1/2:En 2/pt.1 D S/N 052-070-03111-5 4.85

Part 2, Solar Energy (Continued), The Small Business and Government Roles, October 8, 22; and November 18, 1975. 1976. p. 4330-5460, il.
Y 4.Sm 1/2:En 2/pt.2 S/N 052-070-03335-5 10.00

Part 2A, Appendixes. 1976. p. 5462-5832, il.
Y 4.Sm 1/2:En 2/pt.2 A S/N 052-070-03700-8 3.40

Part 3, Opportunities and Problems Facing New England Small Business in the Emerging Alternative Energy Industries, Portland, Maine, May 23, 1977. 1977. p. 5833-6265, il.
Y 4.Sm 1/2:En 2/pt.3 S/N 052-070-04211-7 4.25

Energy Security Act. An Act to Extend the Defense Production Act of 1950, and for Other Purposes. *Title 1, Part A, may be cited as the Defense Production Act of 1980; Part B, as United States Synthetic Fuels Corporation Act of 1980; Title 2, as Biomass Energy and Alcohol Fuels Act of 1980; Title 4, as Renewable Energy Resources Act of 1980; Title 5, as Solar Energy and Energy Conservation Act of 1980; and Title 7, Subtitle A, as Acid Precipitation Act of 1980.* Approved June 30, 1980. 169 p. GS 4.110:96/294 S/N 022-003-92462-1 4.25

ERDA's (Energy Research and Development Administration) Pacific Regional Solar Heating Handbook. *A guide for engineers, architects, and individuals familiar with heating and ventilating who wish to design a solar heating system for a residential or small commercial building on the Pacific Coast. The climate of the region is discussed for selected cities in California, Oregon, Washington, and Arizona, in terms of the effect of climate on solar heating requirements and on various types of solar heating systems.* 1976. 108 p. il.
ER 1.8:So 4 S/N 060-000-00024-7 3.25

Final Report of the ERDA Task Group on Satellite Power Stations. *Documents and summarizes the work of the ad hoc Energy Research and Development Administration (ERDA) Task Group on Satellite Power Stations, which analyzed and evaluated the concept of building large solar collector arrays in geosynchronous Earth orbit to convert solar energy to microwave energy for transmission to Earth.* 1976, published 1977. 29 p. il.
ER 1.11:ERDA 76/148 S/N 061-000-00014-3 $ 1.40

First Passive Solar Home Awards. *This book contains information and illustrations for the 162 projects that were selected to receive awards in a design competition for passive solar residential designs. The report includes general materials on selecting the best type of solar project for a given area, issues involved in marketing passive solar homes, and calculating the solar gain from passive systems.* 1980. 226 p. il. HH 1.2:P 26/4 S/N 023-000-00517-4 6.00

Fuels and Chemicals Made From Solar Energy: Options for the 1990's and Beyond. 1980. 12 p.
E 1.26:21051-01 S/N 061-000-00449-1 1.50

Fundamentals of Solar Heating. *The following two volumes comprise a training course that will provide the on-the-job air conditioning industry employee with an opportunity to learn about solar technology through supervised correspondence instruction.*

Correspondence Course. *A textbook of 11 lessons dealing with solar technology. Topics include: operation of solar heating systems, servicing, heating system installation, sizing solar system components, solar collectors, and more.* 1978. 188 p. il.
E 1.28:HCP/M 4038-01 S/N 061-000-00043-7 4.50

Study Guide. *Contains questions and activities to supplement the textbook. This publication provides you with immediate information or correction of your understanding of the subject matter presented in the textbook.* 1978. 111 p. Issued with plastic spiral binding.
E 1.28:HCP/M 4038-02/rev. S/N 061-000-00168-9 4.00

Guide to Federal Programs of Possible Assistance to the Solar Energy Community. *This publication provides detailed information on the wide range of financial and informational programs presently available to the solar energy community through 21 agencies of the Federal Government. For each agency identified, the report includes a brief description of solar-related activity, reprints of prepared materials an individual might expect to receive after contacting that agency about solar energy, and, for most agencies, the name of a key person to contact for additional information.* 1976. 529 p. il.
Y 4.Sci 2:94-2/UUU S/N 052-070-04080-7 4.00

Guide to Solar Energy Programs. 1978. 70 p. il.
E 1.18:0036/1 S/N 061-000-00042-9 2.40

Hazardous Properties and Environmental Effects of Materials Used in Solar Heating and Cooling (SHAC) Technologies: Interim Handbook. 1978. 226 p. il. E 1.16:0028 S/N 061-000-00207-3 4.25

High Energy Phenomena on the Sun, A Symposium Held at Goddard Space Flight Center, Greenbelt, Maryland, September 23-30, 1972. 1973. 641 p. il. NAS 1.21:342 S/N 033-000-00545-8 $ 5.75

Highway Engineer's Guide to Alternative Energy Sources and Applications. 1980. 144 p. il. TD 2.30/4:80-212 S/N 050-001-00176-4 5.00

Home Mortgage Lending and Solar Energy. *This publication openly discusses the problems and the promise of solar energy not only from the lender's perspective, but also from the buyer's and the builder's. As a result, not only are buyers informed of what they can expect and where financing is most likely to be found, but also are reassured as to the advantages and future of solar power, and builders are reminded of their responsibilities in the development of solar homes that middle Americans can afford.* 1977. 31 p. il.
HH 1.2:So 4/5 S/N 023-000-00387-2 1.40

Hot Water From the Sun: A Consumer Guide to Solar Water Heating. *Describes and illustrates the cost and efficiency factors involved in choosing a solar hot water system. Related publication: Installation Guidelines for Solar DHW (Domestic Hot Water) Systems in One- and Two-Family Dwellings, HH 1.6/3:In 7/980, S/N 023-000-00520-4.* 1980. 123 p. il.
HH 1.6/3:Su 7/2 S/N 023-000-00620-1 4.75

Industry in the 80's: Saving With Solar. *This brochure is designed to acquaint industries that will be building new plants in the 1980's with the techniques of constructing energy conserving buildings and plants, various methods of using solar energy to supply heat for industrial processes, and the potential for building plants that draw all of their energy from the Sun.* 1979. 13 p. il.
E 1.26:0113 S/N 061-000-00361-4 1.75

Industry Opinions on the Formation of a Solar Energy Research Institute (SERI). *Information contained in the study includes background, samples of industry opinion, and results and recommendations for the SERI.* 1975. 50 p. il. ER 1.11:Mtr-7067 S/N 052-010-00458-1 1.60

Inexpensive Economical Solar Heating System for Homes. *This report describes a low-cost solar home heating system designed to supplement an existing warm-air heating system. It gives a brief background on solar heating, offers information for the homeowner wishing to construct such a system, and includes the experience of the NASA (National Aeronautics and Space Administration) Langley Research Center in Hampton, Virginia, where a demonstration system has been constructed.* 1976. 56 p. il.
NAS 1.15:X-3294 S/N 033-000-00632-2 1.15

Installation Guidelines for Solar DHW (Domestic Hot Water) Systems in One- and Two-Family Dwellings. *These guidelines contain pointers for maintenance of a Solar DHW System and a checklist to be consulted when doing the actual installation. They are written for the professional installation contractor and the skilled homeowner and are to be used together with the manufacturers manual.* 1980. 107 p. il.
HH 1.6/3:In 7/980 S/N 023-000-00520-4 4.25

Intermediate Minimum Property Standards Supplement: Solar Heating and Domestic Hot Water Systems. HUD 4930.2. *Subscription service includes quarterly revisions for an indeterminate period. Looseleaf for updating. Issued as Volume 5 of the Minimum Property Standards, this publication contains standards which have been prepared as a supplement to the Minimum Property Standards and deal only with the aspects of planning and design that are different from conventional housing by reasons of the solar systems under consideration.* Subscription price: Domestic - $12.00; Foreign - $15.00. [IMSH] (File Code 1X)
HH 1.6/9:So 4/977

Introduction to Solar Heating and Cooling Design and Sizing. 1978. 502 p. il. E 1.26:0011 S/N 061-000-00152-2 $ 6.75

Introduction to SOLCOST: A New Simplified Design Method for Residential and Light Commercial Solar Heating and Cooling, Heat Load Calculations, Solar Versus Conventional Cost Comparison, Solar System Sizing. *This booklet provides manufacturers, designers, bankers, and other business people with instructions for estimating the costs and performance of a planned solar heating/cooling system through the use of the SOLCOST data processing program. Topics include heat-load calculations, solar versus conventional cost comparison, and solar system sizing. See also, two publications under heading, "SOLCOST."* 1978. 8 p. il.
E 1.26:0042/1 S/N 061-000-00138-7 1.00

NASA (National Aeronautics and Space Administration) and Energy. *Briefly describes NASA's work in wind generation of electricity, photovoltaic solar cells, direct solar cells, direct solar heating and cooling, advanced ground propulsion, energy storage, stationary (on-site) power, and advanced coal extraction.* Rev. 1978. 20 p. il.
NAS 1.2:En 2 S/N 033-000-00734-5 1.10

National Program for Solar Heating and Cooling of Buildings, Annual Report, July 1978. 1978. 55 p. il.
E 1.26:0007 S/N 061-000-00136-1 2.40

National Program for Solar Heating and Cooling of Buildings, Project Data Summaries:

Volume 1, Commercial and Residential Demonstrations. 1976. 163 p. il. ER 1.11:ERDA 76-127 S/N 060-000-00012-3 2.35

Volume 2, Demonstration Support. 1976. 61 p.
ER 1.11:ERDA 76-128 S/N 060-000-00042-5 1.25

National Program Plan for Passive and Hybrid Solar Heating and Cooling: Interim Report. 1979. 124 p. il.
E 1.26:0089 S/N 061-000-00317-7 4.00

National Program Plan for Research and Development in Solar Heating and Cooling for Building, Agricultural, and Industrial Applications. 1978. 239 p. il. E 1.26:0008 S/N 061-000-00133-6 4.50

National Solar Energy Education Directory. *The information contained in this directory was derived from responses to a national survey of educational institutions and organizations involved in solar educational activities beyond the secondary school level.* 1980. 198 p.
E 1.28:SERI/SP-401-516 S/N 061-000-00368-1 $ 5.50

National Solar Heating and Cooling Commercial Demonstration Program: Key Personnel Directory, January 1979. *Lists those firms and individuals who are principal participants in the Department of Energy solar heating and cooling demonstration projects for Federal and non-Federal commercial buildings.* 1979. 141 p.
E 1.26:0057 S/N 061-000-00253-7 3.25

New and Retrofit Solar Hot Water Installations in Florida, January Through June 1977. *Surveys the number of solar hot water installations in new buildings versus the number retrofitted to existing buildings in Florida during the January to June period of 1977. Includes a comprehensive list of manufacturers and another of distributors and installers in Florida.* 1978. 27 p.
E 1.28:HCP/I 5663-01 S/N 061-000-00048-8 1.30

On the Nature and Distribution of Solar Radiation. 1978. 256 p. il.
E 1.28:HCP/T 2552-01 S/N 061-000-00044-5 4.25

Oversight, Hearings Before the Subcommittee on Energy Development and Applications, and Committee on Interstate and Foreign Commerce, and Subcommittee on Energy and Power of the Committee on Science and Technology, House, 96th Congress, 1st Session. *Only these publications pertain to Solar Energy in this series.*

Volume 1, Appropriate Technology, April 30, 1979. 1979. 231 p. il.
Y 4.Sci 2:96/20 S/N 052-070-05083-7 4.50

Volume 6, National Solar Energy Policy, June 14-21, 1979. 1979. 625 p. il. Y 4.Sci 2:96/68 S/N 052-070-05257-1 8.50

Volume 12, Solar Energy Research Institute and Regional Solar Energy Centers. 1979. 600 p. il.
Y 4.Sci 2:96/78 S/N 052-070-05265-1 7.00

Passive Design: It's a Natural. *Describes and illustrates various architectural techniques which work with nature to economically heat and cool our homes. This publication may also be purchased at a special price of $75.00 per 100 copies when mailed to one address. No additional discount allowed on the special price.* 1980. 21 p. il.
E 1.28:SERL/SP-432-521 S/N 061-000-00401-7 1.50

Patent Profiles: Solar Energy. *Presents profiles of United States patents in five major areas of solar energy technology, and in the related areas of wind, geothermal, and tide and wave energy.* 1980. 190 p. il. C 21.25:So 4 S/N 003-004-00568-8 5.50

Performance Testing of a Residential Solar Climate Control System Using a Water Trickle Collector and a Water-Rockbed Thermal Storage During a Winter Period: Final Report, October 1978. 1979. 151 p. il.
E 1.28:HCP/M 2284 S/N 061-000-00269-3 $ 3.25

Photovoltaic Program: Program Summary. 1978. 221 p. il.
E 1.18:0019/1 S/N 061-000-00087-9 4.00

Photovoltaics: Solar Electric Power Systems. *Describes photovoltaic, or solar cell, technology, an alternative source of energy that converts sunlight directly into electricity.* 1980. 20 p. il.
E 1.28:SERI/SP-433-487 S/N 061-000-00393-2 1.75

Proceedings of the Department of Energy's Solar Update. *Objectives, plans, and experience of the National Commercial Solar Heating and Cooling Demonstration Program and the National Solar Data Program were discussed at four regional conferences, July 1978 at Atlanta, San Francisco, Chicago, and Boston. This publication describes the proceedings of those conferences.* 1978. 226 p. il.
E 1.10:780701 S/N 061-000-00103-4 4.25

Proceedings of the Solar Heating and Cooling for Buildings Workshop, Washington, D.C., March 21-22, 1973, Part 1, Technical Sessions. *Summaries of presentations concerning solar collectors, energy storage, heating, solar air conditioning, and combined solar heating/cooling systems.* 1974. 226 p. il.
NS 1.2:So 4/3/pt.1 S/N 038-000-00171-0 2.50

Proceedings of the Solar Industrial-Process Heat Symposium, September 19-20, 1977, College Park, Maryland. 1978. 218 p. il.
E 1.10:770966 S/N 061-000-00109-3 4.25

Protecting Solar Access for Residential Development: A Guidebook for Planning Officials. 1979. 153 p. il.
HH 1.6/3:So 4 S/N 023-000-00523-9 4.75

Putting the Sun to Work in Industry. *Document presents information about solar energy as it relates to industrial process heat (IPH) which is defined as thermal energy used in the preparation and treatment of goods produced by manufacturing processes.* 1980. 8 p. il.
E 1.28:SERI/SP-34-175 R S/N 061-000-00435-1 1.25

Quiet Sun. *A textbook of solar physics, which tries to interpret solar observations in the framework of theoretical physics.* 1973. 330 p. il. Clothbound.
NAS 1.21:303 S/N 033-000-00454-1 7.55

Reaching Up, Reaching Out: A Guide to Organizing Local Solar Events. 1979. 208 p. il.
E 1.28:SERI/SP-62-326 S/N 061-000-00345-2 8.50

Residential Solar Design Review: A Manual on Community Architectural Controls and Solar Energy Use. *This guidebook examines some of the design issues associated with solar energy and suggests ways for design review committees to review solar installations and buildings in light of existing aesthetic goals in their communities. Related publications: Protecting Solar Access for Residential Development; A Guidebook for Planning Officials, HH 1.6/3:So 4, S/N 023-000-00523-9, and Site Planning for Solar Access: A Guidebook for Residential Developers and Site Planners, HH 1.74:1/2, S/N 023-000-00545-0.* 1980. 86 p. il. HH 1.6/3:So 4/2 S/N 023-000-00633-2 $ 4.00

Results and Analysis of a Round-Robin Test Program for Liquid-Heating Flat-Plate Solar Collectors. *This test program evaluated a proposed procedure for testing and rating solar collectors.* 1978. 111 p. il. C 13.46:975 S/N 003-003-01959-3 3.00

Selling the Solar Home '80: Market Findings for the Housing Industry. *Discusses marketing factors useful in planning, construction, and selling solar homes. Related publication: Building the Solar Home; Some Early Lessons Learned, HH 1.74:2, S/N 023-000-00455-1.* 1980. 26 p. il. HH 1.2:So 4/17 S/N 023-000-00568-9 3.00

Selling the Solar Home: Some Preliminary Findings. *Describes factors which influence the construction and sale of solar homes in local markets under the Residential Solar Heating and Cooling Demonstration Program.* 1978. 37 p. il. HH 1.74:1/2 S/N 023-000-00444-5 1.60

Simplified Energy Design Economics: Principles of Economics Applied to Energy Conservation and Solar Energy Investments in Buildings. 1980. 50 p. il. Issued with plastic spiral binding. C 13.10:544 S/N 003-003-02156-3 3.50

Site Planning for Solar Access: A Guidebook for Residential Developers and Site Planners. 1979. 149 p. il. HH 1.6/3:Si 8 S/N 023-000-00545-0 4.75

Solar Assisted Combination Grain Drying: An Economic Evaluation. 1980. 29 p. il. A 1.107:453 S/N 001-000-04138-0 1.50

Solar Collector Manufacturing Activity:

1977, July 1977 Through June 1978. 1979. 44 p. il. E 3.19/2:978 S/N 061-000-00238-3 2.30

1978, July Through December 1978. 1979. 42 p. E 3.19/2:978-2 S/N 061-003-00042-8 2.25

1979, January Through June 1979. 1979. 47 p. il. E 3.19/2:979 S/N 061-003-00060-6 2.25

1980, January Through June 1980. 1980. 43 p. il. E 3.19/2:980 S/N 061-003-00139-4 2.25

Solar Dwelling Design Concepts. *This is a general resource book intended for use by designers, home builders, community leaders, local officials, and all homeowners interested in the application of solar heating and cooling to residential structures or considering participating in the Federal solar energy program. It provides historical background information, a concise report on existing solar dwellings and systems, a list of design considerations, and numerous dwelling and site design concepts which are responsive to factors such as housing type, solar system, and climates.* 1976. 146 p. il.
HH 1.2:So 4/3 S/N 023-000-00334-1 $ 2.30

Solar Energy and Nonfossil Fuel Research: A Directory of Projects Related to Agriculture, 1976-1979. 1979. 238 p.
A 1.38:1378 S/N 001-000-04055-3 5.50

Solar Energy for Agriculture: Review of Research. 1979. 42 p. il.
A 105.25:67 S/N 001-000-04023-5 1.50

Solar Energy for Heating of Greenhouses and Greenhouse-Residence Combinations: Proceedings, 3d Annual Conference, Fort Collins, Colorado, April 2-5, 1978. 1978. 130 p. il.
E 1.10:7804110 S/N 061-000-00223-5 3.00

Solar Energy in America's Future, A Preliminary Assessment. 1977. 106 p. ER 1.11:DSE-115/2 S/N 060-000-00078-6 2.75

Solar Energy in Australia: A Profile of Renewable Energy Activity in Its National Context. *Includes names and addresses of individuals and organizations active in solar energy listed in the following data bases: International Contacts (ICON), International Manufacturers (INMFG), and International Projects (INPRO).* 1980. 75 p.
E 1.28:SERI/SP-763-717 S/N 061-000-00403-3 4.50

Solar Energy Legal Bibliography: Final Report. *This bibliography is a compilation of approximately 160 solar publications abstracted for their legal and policy content (through October 1978).* 1979. 160 p.
E 1.28:SERI/TR-62-069 S/N 061-000-00302-9 4.75

Solar Energy Legislation Through the 94th Congress. *A detailed history of Congressional actions in solar energy from the earliest identifiable bills through the 94th Congress, prepared by the Science Policy Research Division, Congressional Research Service, Library of Congress.* 1976, published 1977. 1603 p.
Y 4.Sci 2:94/TTT S/N 052-070-04014-9 11.50

Solar Energy Policy. 1979. 60 p. il.
CSA 1.9:6143-10 S/N 059-000-00059-4 2.50

Solar Energy: Program Summary Document, Fiscal Year 1981. *This document presents an overview of the United States Department of Energy Solar Energy Program and proposed Fiscal Year 1981 activities. The eight solar technologies are: biomassenergy by systems, photovoltaic energy systems, wind energy conversion system, solar thermal power, ocean systems, agricultural and industrial process heat, active solar heating and cooling, and passive and hybrid solar heating and cooling.* 1980. 364 p. il.
E 1.26:0050 S/N 061-000-00442-4 $ 8.50

Solar Energy: Progress and Promise. *This booklet summarizes the recent technical and economic progress of solar energy technologies and reviews the recommendations that have been offered for speeding their widespread use in the United States and abroad.* 1978. 52 p.
PrEx 14.2:So 4 S/N 041-011-00036-0 2.30

Solar Energy Project. *Issued in looseleaf form, punched for 3-ring binder.*

Biology. *Biomass is the term used to refer to the plant material available to produce energy. One of the activities in this volume will show students a way to use some of the solar energy stored in plants to produce heat. Other activities will enable students to estimate their family's annual energy needs, to convert wastes into fuels, and to compare the cost of using wood, oil, coal, natural gas, and electricity to produce heat.* 1979. 35 p. il.
E 1.26:0065 S/N 061-000-00230-8 1.70

Earth Science. *Building a solar still, constructing and calibrating a solar thermometer, detecting solar energy, and constructing a simple greenhouse are some of the activities covered in this volume.* 1979. 91 p. il.
E 1.26:0063 S/N 061-000-00232-4 2.75

General Solar Topics. *Presents activities keyed to a passive solar house, careers in solar energy, insulation, home energy use, solar energy in a magazine, tracking the Sun by computer, and puzzles and games related to solar energy.* 1979. 76 p. il.
E 1.26:0061 S/N 061-000-00231-6 2.50

Junior High Science. *Activities include: a solar desalinizer; collecting the Sun's energy; absorption, reflection, and transmission of solar energy; energy storage; a solar water heater; solar energy in a coffee can; roof overhang; insulation; and many more.* 1979. 116 p. il.
E 1.26:0062 S/N 061-000-00228-6 2.75

Reader. *Provides both teachers and students with the opportunity to review a variety of representative articles on solar energy, with consideration to the Sun's role in man's past, present, and future. The state-of-the-art of solar technology is examined theoretically, economically, and comparatively in light of the growing need for alternatives in a world of diminishing energy supplies.* 1979. 108 p. il.
E 1.26:0067 S/N 061-000-00235-9 2.75

Solar Energy Project - con.

Text. *A compilation of background information for teachers who wish to obtain some technical information in the area of solar energy. Contains 20 sections dealing with topics ranging from the Sun's composition to the legal implications of using solar energy.* 1979. 102 p. il. E 1.26:0066 S/N 061-000-00233-2 $ 2.75

Solar Energy Research and Development, Hearings Before the Joint Atomic Energy Committee, Congress, 93d Congress, 2d Session, On S. 2819 and S. 3234, Legislation to Establish Within the Energy Research and Development Administration an Office of Solar Energy Research, May 7-8, 1974. 1975. 846 p. il. Y 4.At 7/2:So 4 S/N 052-070-02857-2 7.00

Solar Energy: Status Report. *An overview of the current status and potential of solar energy, describing various public, industrial, and government-funded studies and developments.* 1978. 55 p. il. E 1.18:0062 S/N 061-000-00090-9 2.20

Solar, Geothermal, Electric and Storage Systems: Program Summary Document, Fiscal Year 1980. 1979. 426 p. il. E 1.18:0102 S/N 061-000-00319-3 8.00

Solar Grain Drying: Progress and Potential. 1976, reprinted 1979. 13 p. il. A 1.75:401 S/N 001-000-03632-7 1.00

Solar Heating and Cooling: An Economic Assessment. *This publication serves as an introduction to the important economic considerations necessary for an assessment of the potential for solar heating and cooling in the United States. Included in this booklet are: An introduction to residential and commercial solar energy technology; a methodology for assessing the economic feasibility of solar heating and cooling, with the results of a study of material, labor, marketing, and engineering costs; and an application of this methodology to the heating and cooling situations in 20 United States cities.* 1976. 53 p. il. NS 1.2:So 4/15 S/N 038-000-00300-3 1.20

Solar Heating and Cooling Demonstration Program, A Descriptive Summary of HUD (Department of Housing and Urban Development) Solar Residential Demonstrations. *In an effort to generate widespread interest in the use of solar energy, the Department of Housing and Urban Development is sponsoring five cycles of projects involving single- or multi-family dwelling units that incorporate solar energy systems for heating, cooling, or domestic hot water. The following books summarize the selected projects for the first four cycles. Each summary identifies the grantee, location, and size of the project; supplies a drawing of the unit; and describes the solar energy system.*

Cycle 1, September 1975. 1976. 54 p. il. HH 1.2:So 4/2 S/N 023-000-00338-4 1.15

Cycle 2, Fall 1976. 1977. 103 p. il. HH 1.2:So 4/2/976-2 S/N 023-000-00389-9 2.35

Cycle 3, Summer 1977. 1977. 174 p. il. HH 1.2:So 4/2/977 S/N 023-000-00418-6 3.50

Solar Heating and Cooling Demonstration . . . con.

Cycle 4 and 4A. 1979. 157 p. il.
HH 1.2:So 4/2/979 S/N 023-000-00531-0 $ 4.75

Solar Heating and Cooling Demonstration Project Summaries. 1978.
274 p. il. E 1.26:0009 S/N 061-000-00082-8 4.50

Solar Heating and Cooling Demonstration Project Summaries, January 1979. *This publication presents brief descriptive overviews of the design and operation characteristics of all commercial and Federal residential solar heating and cooling systems and of the structures themselves. Also included are available pictures of the buildings, simplified solar system diagrams, and a bibliography of published reports. Related publication: Solar Heating and Cooling Research and Development, Project Summaries, E 1.26:0010, S/N 061-000-00072-1.* 1979. 325 p. il.
E 1.26:0038-2 S/N 061-000-00224-3 4.50

Solar Heating and Cooling of Residential Buildings. *The following two books present a course to train home designers and builders in the fundamentals of solar hydronic and air systems for space heating and cooling and domestic hot water heating for residential buildings.*

Design of Systems. 1977. 569 p. il.
C 46.8:So 4 S/N 003-011-00084-4 8.25

Sizing, Installation and Operations of Systems. 1977. 375 p. il.
C 46.8:So 4/2 S/N 003-011-00085-2 7.00

Solar Heating and Cooling Research and Development: Project Summaries. *This document describes the Conservation and Solar Applications Solar Heating and Cooling Research and Development Program. It summarizes the research and development program and the projects it presently supports for further development of collectors, thermal energy storage, heat pumps and heat exchangers, solar cooling, and systems and controls. Related publication: Solar Heating and Cooling Demonstration Project Summaries, January 1979, E 1.26:0038-2, S/N 061-000-00224-3.*
1978. 298 p. il. E 1.26:0010 S/N 061-000-00072-1 5.00

Solar Hot Water and Your Home. *Contents of publication: 1) Solar Hot Water Systems, Functional Description; 2) Solar Hot Water Systems, Operational Description; 3) Solar Hot Water Systems, Basics of Solar Energy Utilization; 4) Solar Hot Water Systems, Active Systems; 5) Solar Hot Water Systems, Component Description; 6) Consumer Considerations; 7) References; and 8) Glossary.* 1979. 13 p. il.
HH 1.2:So 4/16 S/N 023-000-00538-7 1.25

Solar Law Reporter. (Bimonthly.) Subscription price: Domestic - $12.00 a year; Foreign - $15.00 a year. Single copy price: Domestic - $3.00 a copy; Foreign - $3.75 a copy. [SLR] (File Code 2N)
E 1.38/4:

Solar Market: Proceedings of the Symposium on Competition in the Solar Energy Industry. *This symposium was held on December 15-16, 1977.*
1978. 299 p. il. FT 1.2:So 4 S/N 018-000-00216-7 5.25

Solar Market Studies: Review and Comment. *The objective of this report is to summarize and analyze relevant solar energy market surveys and related studies to provide a basis for determining areas requiring additional research, and for formulating policies and actions that would aid in rapid adoption and use of solar technologies.* 1980. 51 p.
E 1.28:SERI/SP-434-475 S/N 061-000-00417-3 $ 3.75

Solar Power From Satellites, Hearings Before the Subcommittee on Aerospace Technology and National Needs of the Aeronautical and Space Science Committee, Senate, 94th Congress, 2d Session, January 19 and 21, 1976. *This publication surveys concepts involving advanced aerospace technology that might help satisfy one of our greatest national needs--future sources of energy. Specifically considered are ways to collect solar power in space with satellites and to beam that power to Earth to supplement other sources of electricity. Included too, are many ways to construct such satellites.* 1976. 230 p. il.
Y 4.Ae 8:So 4/2 S/N 052-070-03319-3 2.70

Solar Power Satellite Concept: The Past Decade and the Next Decade. 1979. 29 p. il. NAS 1.2:So 4 S/N 033-000-00766-3 1.25

Solar Program Assessment, Environmental Factors, Solar Thermal Electric. 1977. 72 p. il. ER 1.11:ERDA 77-47/4 S/N 060-000-00056-5 2.20

Solar '77. *Provides a basic understanding of the necessary conservation and system features of an efficient, cost effective, and comfortable solar tempered dwelling. Includes a glossary of solar energy terms.* 1978. 38 p. il. E 1.18:0063 S/N 061-000-00093-3 1.80

Solar Thermal Power Systems: Annual Technical Progress Report, Fiscal Year 1978. 1979. 134 p. il.
E 1.18:0078 S/N 061-000-00309-6 4.75

Solar Wind, Proceedings of a Conference Sponsored by the National Aeronautics and Space Administration Conference, Held March 21-26, 1971, Pacific Grove, California. 1972, reprinted 1980. 717 p. il.
NAS 1.21:308 S/N 033-000-00464-8 6.40

SOLCOST. *SOLCOST is a new and simplified method for designing residential and light commercial systems for solar heating, cooling, and water heating. It also includes heat load calculations, cost estimation, cost comparisons with conventional systems, and solar system sizing. See also, "Introduction to SOLCOST."*

Hot Water Handbook, A Simplified Design Method for Sizing and Costing Residential and Commercial Solar Service Hot Water Systems. 1978. 16 p. il. E 1.26:0042/2 S/N 061-000-00137-9 1.75

Space Heating Handbook With Service Hot Water and Heat Loads Calculations. 1978. 19 p. il.
E 1.26:0042/3 S/N 061-000-00148-4 1.20

Study on the VA (Veterans Administration) Housing Solar Energy and Weatherization Programs, A Report. *Presents the results of a Veterans Administration study to determine the most effective methods of using the programs carried out under the provisions of Chapter 37 of Title 38, United States Code, to aid and encourage present and prospective veteran homeowners to install in their homes solar heating and cooling and to apply residential energy conservation measures.* 1978. 37 p. il.
Y 4.V 64/4:So 4 S/N 052-070-04528-1 $ 1.50

Survey of Passive Solar Buildings. *This publication summarizes constructed passive solar projects in the United States. Illustrations show the appearance of each building and the operation of its solar system.* 1978. 177 p. il.
HH 1.2:So 4/10 S/N 023-000-00437-2 5.50

Survey of Solar Energy Products and Services, May 1975. *Solar energy is one of the leading alternative possibilities for commercial production of energy in the United States. This survey describes and explains the various solar energy research projects in private industry today, and the present conversion and use of solar energy.* 1975. 545 p. il. Y 4.Sci 2:94-1/G S/N 052-070-03011-9 4.60

Training Community College Faculty in the Techniques and Skills Required for Solar Energy System Installation. 1980. 64 p.
E 1.28:DOE/CS/34223-01 S/N 061-000-00432-7 3.75

Workshop Manual on Technical, Economic, and Legal Considerations for Evaluating Solar Heated Buildings for Lenders, Appraisers, Insurers, and Tax Consultants. *Contents of publication: Module 1, Introductions; Module 2, Solar heating systems for space heating and domestic hot water; Module 3, Factors in evaluating solar heating buildings; Module 4, Barriers and incentives; and Module 5, Evaluation of solar systems.* 1979. 246 p. il. E 1.26:0083 S/N 061-000-00300-2 6.00

Workshop Proceedings, Solar Cooling for Buildings. *Proceedings of a workshop on solar cooling held February 6-8, 1974, sponsored by the National Science Foundation.* 1975. 231 p. il.
NS 1.2:So 4/10 S/N 038-000-00189-2 3.00

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